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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/809,238	03/24/2004	Jonathon Stiff	CYPR-CD02230	6680

7590 08/30/2005

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EXAMINER

ZWEIZIG, JEFFERY SHAWN

ART UNIT	PAPER NUMBER
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2816

DATE MAILED: 08/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/809,238	STIFF, JONATHON	
	Examiner	Art Unit	
	Jeffrey S. Zweizig	2816	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 August 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 10-15 and 17 is/are allowed.
- 6) ☒ Claim(s) 1-9, 16 and 18-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 13 February 2004 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Drawings

1. The specification and claims do not appear to significantly rely on Fig. 3, however, Fig. 3 is illegible to the point of being unexaminable. Applicant may want to enlarge Fig. 3 and put it on its own sheet separate from Fig. 4.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

2. The specification is objected to because the second sentence in paragraph [0017] appears to conflict with the first sentence in paragraph [0017]. The first sentence is believed to be correct.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 1-9, 16 and 18-20 remain rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Referring to claim 1 and Fig. 2, as best understood, the first stage is directed toward 210, the second stage is directed toward 220, the additive circuit is directed toward the connection between M8 and M9 and the subtractive circuit is directed toward M4. The disclosure is not seen to technically support the alternate language of the subtractive circuit portion of the claim. The subtractive circuit M4 only subtracts the first stage contribution, never the second stage contribution. Dependent claim 7 expands on the structure of the subtractive circuit and claims 8 and 9 expand on the function of the subtractive circuit. Claim 9 is understood, claim 8 is not. Again, there appears to be no

proper technical support for the first stage 210 to remove the contribution of the second stage 220 by way of the subtractive circuit M4. Claims 1 and 8 are not seen to be properly enabled by the technical scope and spirit of the disclosure. Claims 2-7 and 9 are rejected as depending from rejected claim 1.

Claims 16, 18 and 20 are rejected as have the same problems noted above. The remaining claims are rejected as depending on a rejected base claim.

Response to Amendment

In light of the amendments to the claims, the 112, 2nd paragraph rejections are withdrawn.

According to the 112, 1st paragraph, rejection above, the amendment to claim 1 appears to be incorrect. As pointed out above, the first stage is directed toward 210, the second stage is directed toward 220 and the subtractive circuit is directed toward M4. Transistor M4 has a control terminal. The control terminal is called the control terminal because it controls the transistor. The control terminal of M4 is connected to the second stage 220. The output terminal of transistor M4 is connected to the first stage 210. Therefore, the second stage 220 can influence the first stage 210 via the subtractive circuit M4, however, it is not seen how the first stage could possibly influence the second stage 220 via the subtraction circuit M4. Thus, claim 1 should read ..."a subtractive circuit to subtract said first MOSFET stage contribution"... since it is the second stage 220 that causes the first stage 210 to subtract its contribution by way of M4.

During a telephone conversation with Anthony Murabito on 8/24/05, Examiner and Applicant's representative were not able to agree on this point.

The amendment to claim 10 is believed to be correct since the PMOS stage appears to be directed toward the first stage 210 and the NMOS stage appears to be directed toward the second stage 220.

Claim 18 is still seen to have the same problem as claim 1. It is believed that claim 18 should read ... "wherein said current compensation circuit removes the input of said first voltage-to-current converter during the"

Examiner is relying on paragraphs [0023] and [0024] of Applicant's specification to explain the operation of the subtractive circuit M4. As pointed out in the objection above, paragraph [0017] is confusing and not understood.

Examiner is looking for a proper technical disclosure. Just because the specification discloses a function as being possible does not necessarily mean that the function has been properly enabled. The function must be readily apparent to one of ordinary skill in the art or the specification must technically explain how the function is possible. It is not readily apparent how the first stage 210 can influence the second stage 220 via the subtraction circuit M4.

Applicant's response failed to address claims 8, 16 and 20. Claims 8, 16 and 20 are believed to expand on what is not properly enabled. It would appear that claims 8, 16 and 20 should be cancelled.

Allowable Subject Matter

5. Claims 10-15 and 17 appear to be allowable over the Prior Art of record.

Conclusion

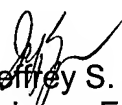
6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey S. Zweizig whose telephone number is (571) 272-1758. The examiner can normally be reached on Monday thru Wednesday 6:00 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan can be reached on (571) 272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Jeffrey S. Zweizig
Primary Examiner
Art Unit 2816

JZ